

## Unit 10.1 Solve systems of three equations PRACTICE

Period \_\_\_\_\_

**Solve each system.**

1) 
$$\begin{aligned} -x + 5y &= -17 \\ -6x - 5y &= 3 \end{aligned}$$

2) 
$$\begin{aligned} 6x + 4y &= 14 \\ -4x &= -20 \end{aligned}$$

3) 
$$\begin{aligned} 3x - 3y &= 24 \\ -4x + 4y &= -12 \end{aligned}$$

4) 
$$\begin{aligned} 5x + 6y &= -26 \\ 5x + 4y &= -14 \end{aligned}$$

5) 
$$\begin{aligned} -3x + 2y &= -19 \\ 2x + 2y &= 6 \end{aligned}$$

6) 
$$\begin{aligned} -4x + 6y &= 22 \\ 4x - 3y &= -13 \end{aligned}$$

7) 
$$\begin{aligned} -2x - 3y &= 15 \\ 5x + 6y + 5z &= -15 \\ x + y &= 2 \end{aligned}$$

8) 
$$\begin{aligned} -2x - 2z &= 0 \\ -2x - 3z &= 13 \\ x + 4z &= 12 \end{aligned}$$

9) 
$$\begin{aligned} x + 4y - z &= -5 \\ -6x - 4y + z &= -8 \\ -4z &= -8 \end{aligned}$$

10) 
$$\begin{aligned} -y + 6z &= 13 \\ -2x + y + 3z &= 6 \\ -6x + y &= -19 \end{aligned}$$

11) 
$$\begin{aligned} -4y - 3z &= -2 \\ 4z &= -12 \\ x + 4y - z &= 14 \end{aligned}$$

12) 
$$\begin{aligned} 2x + 6z &= 14 \\ -4x + y - 4z &= 9 \\ x - 5z &= -1 \end{aligned}$$

$$\begin{aligned} 13) \quad & -3x + z = -13 \\ & -5x - 5y + 2z = 9 \\ & 2x + y - 5z = -6 \end{aligned}$$

$$\begin{aligned} 14) \quad & -x + 5y + 3z = 0 \\ & 4y - 5z = -4 \\ & 5x + y = -26 \end{aligned}$$

$$\begin{aligned} 15) \quad & -6x - 2y - 5z = 11 \\ & y + 3z = -3 \\ & 2x + y - 6z = 4 \end{aligned}$$

$$\begin{aligned} 16) \quad & -3x + 5y = -27 \\ & x + 5z = 4 \\ & 3x - 6y - 3z = 30 \end{aligned}$$

$$\begin{aligned} 17) \quad & y + 4z = -4 \\ & -4x + 2y - 6z = 24 \\ & -6x + y + 3z = 4 \end{aligned}$$

$$\begin{aligned} 18) \quad & 3x - 6y - 3z = 27 \\ & -6x + y = 12 \\ & -3x - 3y = 27 \end{aligned}$$

$$\begin{aligned} 19) \quad & x + 5y = -15 \\ & -2x - y - 6z = 15 \\ & -2x - 4y + 2z = 8 \end{aligned}$$

$$\begin{aligned} 20) \quad & -x + y = -9 \\ & 2x - 5y - 4z = 11 \\ & 2x - 2y + 2z = 17 \end{aligned}$$

$$\begin{aligned} 21) \quad & -3x - 6z = -18 \\ & x - 4y - 2z = -4 \\ & -5x + 6y + 4z = 7 \end{aligned}$$

$$\begin{aligned} 22) \quad & x + 3y - 4z = 4 \\ & 6x - 2y - 4z = 18 \\ & 4x - 4z = -4 \end{aligned}$$

$$\begin{aligned} 23) \quad & 2x - y + z = -1 \\ & 4x + 3z = 5 \\ & -3x - y + 4z = 4 \end{aligned}$$

$$\begin{aligned} 24) \quad & 4x - 4y = 16 \\ & 3x - 6y - 5z = 10 \\ & -x - 4y + z = 30 \end{aligned}$$